

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time-Stamp
L1	9	(primase or dnag) same dinucleotide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/02 09:23
L2	113	(primase or dnag) same (dinucleotide or trinucleotide or repeat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/02 09:44
L3	4	us-20040235766-\$ did. us-20030224384-\$ did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/11/02 09:45
S1	1	(ASTRAZAN ASTRAZANECA ASTRAZANECA-AB).as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:27
S2	1	(ASTRAZAN or ASTRAZANECA or (ASTRAZANECA adj1 AB)).as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:27
S3	1	astrazeneca.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:28
S4	6876	AstraZeneca	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:28
S5	5192	AstraZeneca.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:28
S6	5192	Astrazeneca.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:28
S7	5192	astrazeneca.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:28
S8	4	astrazeneca.as. and primase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:56

## EAST Search History

S9	6	(qiang near2 guo near2 chen).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:57
S10	2	(ce near2 feng near2 liu).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 13:59
S11	14	primase same rna same (fluorescent or fluorescence or fluorophore)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 15:05
S12	78	(primase same rna same (template or target)) and (fluorescence or fluorescent or fluorophore)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 15:12
S13	258	(primase same rna ) and (fluorescence or fluorescent or fluorophore)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 15:05
S14	85	(primase same rna ) and (fluorescence or fluorescent or fluorophore) and (direct\$4 near2 detect\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 15:06
S15	6	wo-9937661-\$.did. wo-200058270-\$.did. wo-9859044-\$.did. wo-200109164-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 17:08
S16	2	primase same (ribogreen or sybr or (yo adj1 pro))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 16:30
S17	38	primase and (ribogreen or sybr or (yo adj1 pro))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 16:30
S18	7	"7045319".pn. "7226738".pn. "5766904".pn. "6037123".pn. "6187541".pn. "6228588".pn. "4946968".pn.	USPAT	OR	OFF	2007/10/26 17:09
S19	5	S18 and (primase or dnag)	USPAT	OR	OFF	2007/10/26 17:10
S20	1	10/813,693.app.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/26 17:24

## Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssptasmb1637

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1	Web Page for STN Seminar Schedule - N. America	
NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 12	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 13	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 15	AUG 27	USPATOLD now available on STN
NEWS 16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 18	SEP 13	FORIS renamed to SOFIS
NEWS 19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 20	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 21	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24	OCT 19	BEILSTEIN updated with new compounds
NEWS EXPRESS	19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.	
NEWS HOURS	STN Operating Hours Plus Help Desk Availability	
NEWS LOGIN	Welcome Banner and News Items	

Enter NEWS followed by the item number or name to see news on that subject.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.



IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
KWIC ----- Hit term plus 20 words on either side  
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):kwic

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
ST yeast replication protein trinucleotide repeat expansion fragility YAC;  
trinucleotide repeat expansion fragility RAD27 DNA  
ligase primase yeast

=> d kwic

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
ST yeast replication protein trinucleotide repeat expansion fragility YAC;  
trinucleotide repeat expansion fragility RAD27 DNA  
ligase primase yeast

=> s (dnag or primase) and ((dinucleotide or trinucleotide) (30a) repeat?)  
L3 20 (DNAG OR PRIMASE) AND ((DINUCLEOTIDE OR TRINUCLEOTIDE) (30A)  
REPEAT?)

=> dup remove 13

PROCESSING COMPLETED FOR L3

L4 10 DUP REMOVE L3 (10 DUPLICATES REMOVED)

=> d ti 1-10

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Genes showing altered patterns of expression in the presence of mutant  
alleles of the PTEN gene and their use in diagnosis of cancer

- L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Biomarkers of cyclin-dependent kinase modulation in cancer therapy
- L4 ANSWER 3 OF 10 MEDLINE on STN DUPLICATE 1  
TI Mutations in yeast replication proteins that increase CAG/CTG expansions also increase repeat fragility.
- L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Identification of differentially expressed genes in pancreatic cancer cells using cDNA microarray. [Erratum to document cited in CA137:107241]
- L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Identification of differentially expressed genes in pancreatic cancer cells using cDNA microarray
- L4 ANSWER 6 OF 10 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN  
TI Minichromosomal DNA replication in the macronucleus of the hypotrichous ciliate *Stylonychia lemnae* is independent of chromosome-internal sequences.
- L4 ANSWER 7 OF 10 MEDLINE on STN DUPLICATE 2  
TI The impact of lagging strand replication mutations on the stability of CAG repeat tracts in yeast.
- L4 ANSWER 8 OF 10 MEDLINE on STN DUPLICATE 3  
TI Development and use of an in vitro HSV-tk forward mutation assay to study eukaryotic DNA polymerase processing of DNA alkyl lesions.
- L4 ANSWER 9 OF 10 MEDLINE on STN DUPLICATE 4  
TI Isolation of human DNA-unwinding elements as sites of DNA polymerase alpha/primase entry.
- L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Isolation of DNA-unwinding elements (DUE) with DNA polymerase  $\alpha$
- => d kwic bib 8, 10
- L4 ANSWER 8 OF 10 MEDLINE on STN DUPLICATE 3  
AB DNA strand produced during in vitro synthesis. We have examined the accuracy of DNA synthesis catalyzed by calf thymus polymerase alpha-primase, polymerase beta and exonuclease-deficient Klenow polymerase. Using unmodified DNA templates, polymerase beta displays a unique specificity for the loss of two bases in a dinucleotide repeat sequence within the HSV-tk locus. Treatment of the DNA template with N-ethyl-N-nitrosourea resulted in a dose-dependent inhibition of DNA synthesis.
- AN 97214041 MEDLINE  
DN PubMed ID: 9060443  
TI Development and use of an in vitro HSV-tk forward mutation assay to study eukaryotic DNA polymerase processing of DNA alkyl lesions.
- AU Eckert K A; Hile S E; Vargo P L  
CS The Jake Gittlen Cancer Research Institute, The Pennsylvania State University College of Medicine, PO Box 850, Hershey, PA 17033, USA.  
SO Nucleic acids research, (1997 Apr 1) Vol. 25, No. 7, pp. 1450-7.  
Journal code: 0411011. ISSN: 0305-1048.
- CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
(RESEARCH SUPPORT, NON-U.S. GOV'T)
- LA English  
FS Priority Journals  
EM 199705  
ED Entered STN: 14 May 1997  
Last Updated on STN: 6 Feb 1998

Entered Medline: 2 May 1997

L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
AB Human DNA libraries were screened for DNA synthesis activity in vitro using purified DNA polymerase  $\alpha$ / primase and a viral DNA helicase. Three clones exhibited a high activity distinguishable from the rest. The DNA synthesis initiated atomic . . . the initiation region. Analyses of the DNAs demonstrated that these DNAs have a highly single-stranded nature and contain a characteristic dinucleotide repeat sequence. These repeats have an extremely low free energy for DNA strand separation and are defined as DNA-unwinding elements, which.

AN 1995:367417 CAPLUS  
DN 122:257632  
TI Isolation of DNA-unwinding elements (DUE) with DNA polymerase  $\alpha$   
AU Tsurimoto, Toshiki  
CS Inst. Mol. Cell. Biol., Osaka Univ., Suita, 565, Japan  
SO Asahi Garasu Zaidan Josei Kenkyu Seika Hokoku (1994) 65-71  
CODEN: AGSHEN; ISSN: 0919-9179  
PB Asahi Garasu Zaidan  
DT Journal  
LA Japanese

=> s (dnag or primase) and ((dinucleotide or trinucleotide) and repeat?)  
L5 27 (DNAG OR PRIMASE) AND ((DINUCLEOTIDE OR TRINUCLEOTIDE) AND REPEA  
T?)

=> dup remove 15  
PROCESSING COMPLETED FOR L5  
L6 14 DUP REMOVE L5 (13 DUPLICATES REMOVED)

=> d ti 1-14

L6 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1  
TI Staphylococcus aureus helicase but not Escherichia coli helicase stimulates S. aureus primase activity and maintains initiation specificity.

L6 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Genes showing altered patterns of expression in the presence of mutant alleles of the PTEN gene and their use in diagnosis of cancer

L6 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Biomarkers of cyclin-dependent kinase modulation in cancer therapy

L6 ANSWER 4 OF 14 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN  
TI Proteome dynamics during C2C12 myoblast differentiation.

L6 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Modular biochip arrays and their diagnostic or analytical uses and their preparation and uses

L6 ANSWER 6 OF 14 MEDLINE on STN DUPLICATE 2  
TI Mutations in yeast replication proteins that increase CAG/CTG expansions also increase repeat fragility.

L6 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Identification of differentially expressed genes in pancreatic cancer cells using cDNA microarray. [Erratum to document cited in CA137:107241]

L6 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Identification of differentially expressed genes in pancreatic cancer cells using cDNA microarray

- L6 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Analysis of the chromosome sequence of the legume symbiont *Sinorhizobium meliloti* strain 1021
- L6 ANSWER 10 OF 14 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN  
TI Minichromosomal DNA replication in the macronucleus of the hypotrichous ciliate *Stylonychia lemnae* is independent of chromosome-internal sequences.
- L6 ANSWER 11 OF 14 MEDLINE on STN DUPLICATE 3  
TI The impact of lagging strand replication mutations on the stability of CAG repeat tracts in yeast.
- L6 ANSWER 12 OF 14 MEDLINE on STN DUPLICATE 4  
TI Development and use of an in vitro HSV-tk forward mutation assay to study eukaryotic DNA polymerase processing of DNA alkyl lesions.
- L6 ANSWER 13 OF 14 MEDLINE on STN DUPLICATE 5  
TI Isolation of human DNA-unwinding elements as sites of DNA polymerase alpha/primase entry.
- L6 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Isolation of DNA-unwinding elements (DUE) with DNA polymerase  $\alpha$
- => d kwic 1
- L6 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1  
TI *Staphylococcus aureus* helicase but not *Escherichia coli* helicase stimulates *S. aureus* primase activity and maintains initiation specificity.
- AB Bacterial primases are essential for DNA replication due to their role in polymerizing the formation of short RNA primers repeatedly on the lagging-strand template and at least once on the leading-strand template. The ability of recombinant *Staphylococcus aureus* DnaG primase to utilize different single-stranded DNA templates was tested using oligonucleotides of the sequence 5'-CAGA (CA)5 XYZ (CA)3-3', where XYZ represented the variable trinucleotide. These experiments demonstrated that *S. aureus* primase synthesized RNA primers predominately on templates containing 5'-d(CTA)-3' or TTA and to a much lesser degree on GTA-containing templates, in contrast to results seen with the *Escherichia coli* DnaG primase recognition sequence 5'-d(CTG)-3'. Primer synthesis was initiated complementarily to the middle nucleotide of the recognition sequence, while the third nucleotide, . . . from both *S. aureus* and *E. coli* were tested for their ability to stimulate either *S. aureus* or *E. coli* primase. Results showed that each bacterial helicase could only stimulate the cognate bacterial primase. In addition, *S. aureus* helicase stimulated the production of full-length primers, whereas *E. coli* helicase increased the synthesis of only. . . These studies identified important differences between *E. coli* and *S. aureus* related to DNA replication and suggest that each bacterial primase and helicase may have adapted unique properties optimized for replication.
- CT Adenosine  
\*Bacterial Proteins: ME, metabolism  
\*DNA Helicases: ME, metabolism  
\*DNA Primase: ME, metabolism  
DNA Primers: ME, metabolism  
DNA, Single-Stranded  
*Escherichia coli* Proteins: ME, metabolism  
Species Specificity  
\**Staphylococcus aureus*: EN, enzymology

CN 0 (Bacterial Proteins); 0 (DNA Primers); 0 (DNA, Single-Stranded); 0 (Escherichia coli Proteins); EC 2.7.7.- (DNA Primase); EC 3.6.1.- (DNA Helicases)

=> d bib 1

L6 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1  
AN 2006372501 MEDLINE  
DN PubMed ID: 16788176  
TI Staphylococcus aureus helicase but not Escherichia coli helicase stimulates S. aureus primase activity and maintains initiation specificity.  
AU Koepsell Scott A; Larson Marilynn A; Griepl Mark A; Hinrichs Steven H  
CS Department of Microbiology and Pathology, University of Nebraska Medical Center, Omaha, Nebraska 68198-6495, USA.  
SO Journal of bacteriology, (2006 Jul) Vol. 188, No. 13, pp. 4673-80.  
Journal code: 2985120R. ISSN: 0021-9193.  
CY United States  
DT (COMPARATIVE STUDY)  
Journal; Article; (JOURNAL ARTICLE)  
(RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)  
LA English  
FS Priority Journals  
EM 200608  
ED Entered STN: 22 Jun 2006  
Last Updated on STN: 5 Aug 2006  
Entered Medline: 4 Aug 2006

=> logogg

L7 0 LOGOGG

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	56.68	56.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.78	-0.78

STN INTERNATIONAL LOGOFF AT 10:39:18 ON 02 NOV 2007